USSR/Miner	tyet i	하는 사람들은 가게 하는 하다가 하고 바꾸게 되는 것도 있다. 그는 그는 그는 그는 그는 그들을 모르는데
Card 1/1	1	Pub. 86 - 12/40
Authors		Budnikov, P. P. Memb. Corresp. of the Academy of Sc. SSR
Title	ŧ	GAZHA
Periodical	1	Priroda 3, 81-82, Mar 1954
Periodical Abstract	1	Priroda 3, 81-82, Mar 1954 Gazha - the name for sedimentary rocks - represents a natural gypsum mixture containing of from 20 - 90% of clayey substances and finely dispersed calcium and silica carbonates. Gazha often contains small amounts of water-soluble salts of sodium, potassium, magnesium, calcium and other metals, as well as organic admixtures and fragments of various minerals. The physico-chemical properties of Gazha, derived from different sources, are listed.
Abstract	ŧ	Gazha - the name for sedimentary rocks - represents a natural gypsum mixture containing of from 20 - 90% of clayey substances and finely dispersed calcium and silica carbonates. Gazha often contains small amounts of water-soluble salts of sodium, potassium, magnesium, calcium and other metals, as well as organic admixtures and fragments of various minerals. The physico-chemical properties of Gazha, derived from differ-

USSR/Engineering - Construction Materials

FD-1388

Card 1/1

: Pub. 41-15/18

Author

: Budnikov, P. P., Corresponding Member, Academy of Sciences USSR

Title

: Hydrothermally-treated clay-lime building material and theory of its

formation

Periodical

: Izv. AN SSSR. Otd. tekh. nauk 3, 137-145, March 1954

Abstract

: Gives results of experimental investigation of the influence of technological factors on the hardening of clay-lime building materials, the influence of clays of various mineralogical composition on its compression strength, and a study of the chemical processes occurring during interaction of calcium

Institution:

Submitted

: March 17, 1954

CIA-RDP86-00513R000307310005-2" APPROVED FOR RELEASE: 06/09/2000

USSR/Engineering - Bibliography

FD-1390

Card 1/1

: Pub. 41-17/18

Author

: Stol'nikov, V. V.

Title

: P. P. Budnikov and I. L. Znachko-Yavorskiy. Granulated blast-furnace slags and slag cements. Promotroyizdat, 1953, 224 pp.

Periodical

: Izv AN SSSR. Otd. tekh. nauk 3, 150-154, Mar 1954

Abstract

: A review of the above book on blast-furnace slags and their properties, including data on the chemical and mineralogical composition and structure of slags, detailed description and comparative evaluation of the granulation of blast-furnace slags by the wet, moist, and dry methods,

and utilization of slags in cement industry.

Institution :

Submitted

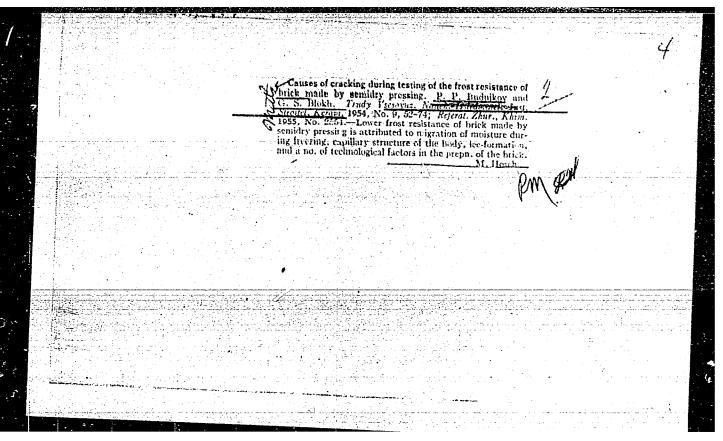
BUDNIKOV, P.P.; TRESVYATS'KIY, S.G.

Diagram of the composition of Na₂ O-TiO₂ systems. Pop. AN URSR no.5:371-376 '54. (MLRA 8:?)

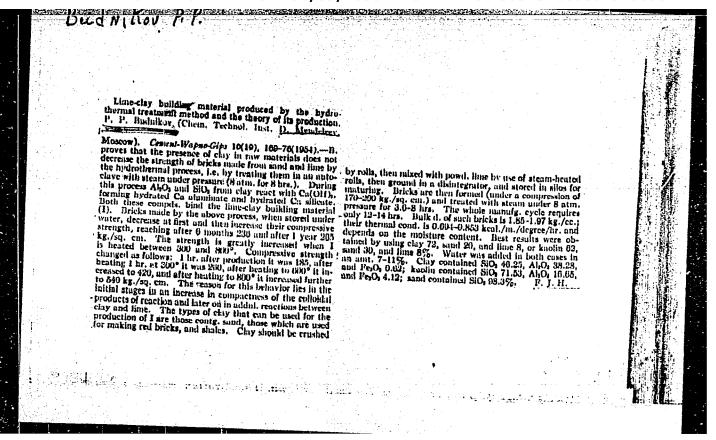
1. Diyaniy chlen; AN URSR (for Budnikov). (Sodium oxide) (Titanium oxides)

BUDNIKOV, P. P. and KHVOSTNIKOV, Y. S.

"Investigation of Favorable Conditions for the Manufacture of Construction Material from Lime and Clay," translated into German in Silikattechnik, Vol. 6, No 4, pp 161-2,



USSR/Scientific Organization - Conventions Card 1/1 Pub. 124 - 12/26 Authors: Budnikov, P. P., Member Corresp. of Acad. of Sc. USSR Title: Our trip to Poland Periodical: Vest. AN SSSR 10, 64-67, Oct 1954 Abstract: Brief notes and observations are presented by a member of the Soviet Sciences in Warsaw-Poland at which the development of the Structural attending the session are listed. Institution: Submitted:		
Brief notes and observations are presented by a member of the Soviet delegation who participated during the session of the Polish Academy of Sciences in Warsaw-Poland at which the development of the structural attending the session are listed. Institution:	USSR/Scie Card 1/1 Authors	ntific Organization - Conventions Pub. 124 - 12/26 Budnikov, P. P., Member Corresp. of Acad.
	vos rlact	Brief notes and observations are presented by a member of the Soviet delegation who participated during the session of the Polish Academy of materials industry in Poland was discussed. Names of parasitional



WHIPHIKOU, 1:P. USSR/ Chemistry - Physicochemistry Card 1/1 Pub. 104 - 1.2/14 Authors 1 Budnikov, P. P. The second secon Title ! Monograph on the physicochemical properties of glazes Periodical : Stek. i ker. 11/3, page 29, Nov 1954 Abstract A review is made of the book, "Physicochemical Properties of Blazes of High-Voltage Porcelain", by V. P. Barzakovskiy and S. K. Dubrovo, published/the Academy of Sciences of the USSR, in 1953, and containing 276 pages. The book deals with the way in which the electromagnetic and other properties of porcelain are effected by the quality of the glazing. A chapter by chapter analysis shows the book Institution: Submitted:

USSR/Chemistry - Refractories

Card

: 1/1 Pub. 116 - 19/20

Authors

: Budnikov, P. P. and Khramova, V. I. **网络阿尔斯斯**

Title

Refractories on the basis of reaction between kaolin and carbon. Mullitecarborundum and corundo-carborundum refractories

Periodical

Ukr. khim. zhur. 20, Ed. 4, 447 - 455, 1954

Abstract

The synthesis of corundo-carborundum refractories with high thermal and slag resistance as well as high-thermal deformation characteristics, obtained as a product of reaction between kaolin and carbon at 175047, is described. The thermal conductivity of mullite-carborundum and corundocarborundum refractories, is given in table. Four USSR references (1936-1952). Graphs, drawings, illustrations.

Institution : ...

Submitted

: March 6, 1954

Budnikov P.P.

AID P - 1019

Subject : USSR/Chemistry

Card 1/1 Pub. 119 - 4/8

Authors : Budnikov, P. P. and Ginstling, A. M. (Moscow)

Title : Study of the mechanism and kinetics of reactions

occuring in mixtures of solids

Periodical: Usp. khim., 23, no. 4, 491-506, 1954

Abstract : Critical review of the work of non-Soviet scientists.

Emphasis of work done by Soviet scientists. Enumeration of problems still to be solved. Three tables, 83 refer-

ences (64 Russian: 1909-1953).

Institution: None

Submitted : No date

BUDNIKOV, P. P.

USSR/Engineering - Materials

Card

: 1/1

Authors

Budnikov, P. P., Memb. Corres. of the Acad. of Scs. of the USSR

Title

Construction materials "hydrothermal treatment"

Periodical

Vest. AN SSSR, 24, Ed. 5, 49 - 51, May, 1954

Abstract

Obtaining structural bricks from sandy clay and lime is made possible by the so-called hydro-thermal method. A table shows the main characteris-

tics of such bricks.

Institution :

Submitted : ...

CIA-RDP86-00513R000307310005-2" APPROVED FOR RELEASE: 06/09/2000

BUDNIKOV, P. P.	Chem.
Chemical Abst. Vol./48 No. 9 May 10, 1954 General and Physical Chemistry	Dmitril Stepanovich Belyankin. P. Budnikov, A. S. Berezhnol, U. K. Bolyinkin, S. S. Davydov, K.B. G. Gevorkan, K. B. Goryalnov, V. P. Kuprianov, I. I. Kitalgorodskil, V. M. K. W. Kukolev, V. V. Lapin, A. A. Lityakovskil, V. M. Moskvill, S. A. Mitonov, U. F. McHellov-Petrosyan, R. L. Pevznef, B. G. Skrafitaev, V. N. Yung, and M. H. Yush, keyich, Zhur, Priklad. Khim, 27, 3-4(1954).—Obituary with portrait and summary of scientific work in phys. chemistry and the silicates. G. M. Kosolapofi
	9-2-57

BUDNIKOV, P.P.

PEVZNER, R.L.

"Gramulated blast-furnace slags and slag cements." P.P.
Budnikov, I.L.Znachko-IAvorskii. Reviewed by R.L.Pevzner.
Zhur.prikl.khim. 27 no.2:226-227 F '54. (MIRA 7:2)
(Slag) (Slag cement) (Budnikov, Petr Petrovich, 1885-)
(Znachko-IAvorskii, I.L.)

Budrikov, P. P.

Subject

: USSR/Chemistry

AID P - 930

Card 1/1

Pub. 152 - 21/22

Author

: Budnikov, P. P.

Title.

: Physicochemical properties of glazes of high-voltage porcelain, by V. P. Barzakovskiy and S. K. Dubrovo

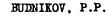
Periodical : Zhur. prikl. khim., 27, no. 5, 573-575, 1954

Abstract

: Review

Institution: None

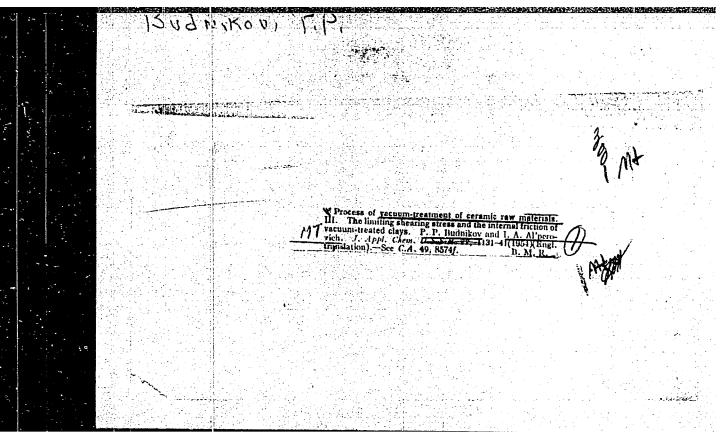
Submitted : No date



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"Binding substances with surface-active additions." IU.M.Butt,
T.M.Berkovich. Reviewed by P.P.Budnikov. Zhur.prikl.khir. 27
no.6:689-690 Je '54. (MLRA 7:8)
(Surface-active agents) (Butt, IU.M.) (Berkovich, T.M.)
(Binders (Chemistry))
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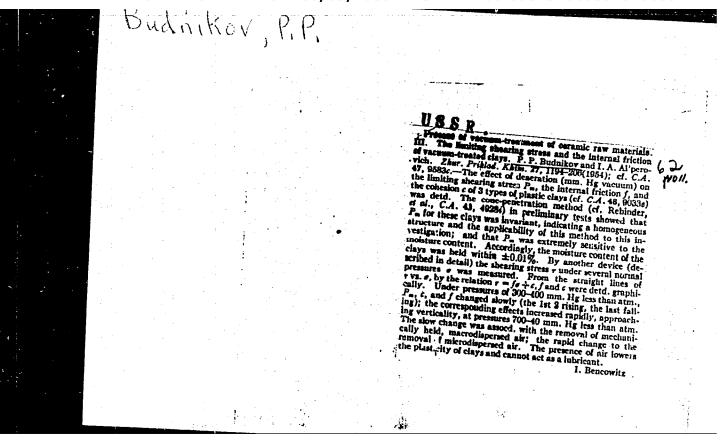
BUDNIKOV, P.

"Technology of binding materials." V.N.IUng, IU.M.Butt, V.F.Zhuravlev, S.D.Okorokov. Reviewed by P.Budnikov. Zhur.prikl.khim.
no.27 no.6:691-692 Je *54. (MIRA 7:8)
(Binders(Chemistry)) (IUng, Vladimir Nikolaevich, 1882-)
(Butt, IU.M.) (Zhuravlev, V.F.) (Okorokov, S.D.)



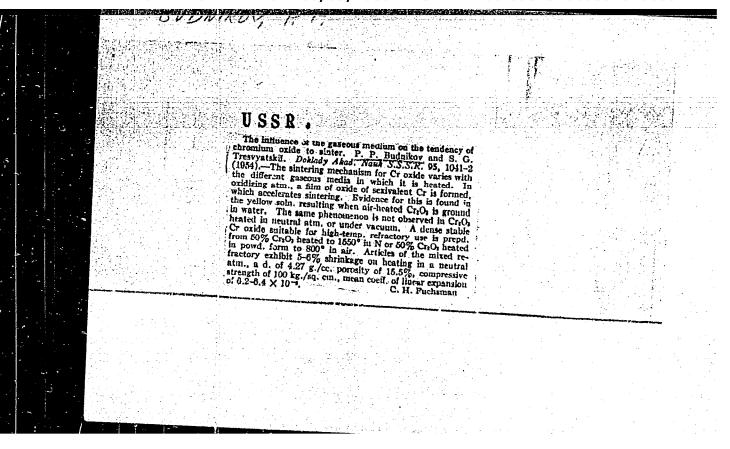
"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307310005-2



BUDNIKOV, P.P.

[Thermite corundum, its properties and application." Pevzner, R.L. Reviewed by P.P.Budnikov. Zhur.prikl.khim. 27 no.12:1334- D '54. (Corundum) (Pevzner, R.L.) (MIRA 8:2)



APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307310005-2"

Budnikov, P. P.

Hydrothermal reactions between clays and free line by drate. P. P. Budnikov and M. I. Khigerovich. Doklady Akad. Nauk 5.3.5.8. 96, 141–2(1954); cl. Doklady Akad. Nauk 5.3.5.8. 96, 141–2(1954); cl. Doklady Akad. Nauk 5.3.5.8. 90, No. 6(1953); cl. 4. 47, 1908g.—The reaction const. of the system kaolinite. Cn(OH); (the clay from the disposits of Khotskovsk and Nizhnekotel'sk) was detd. from analytical data and the changes of electrolytic cond. as a function of time. At 25° , K = 0.00321; at 100° , K = 0.236. The temp. coeff. of the rate coust. is $K_{13} = 1.85$. The "clay substance" is defined as the disperse phases of clay minerals below 2 μ size ordinary clays also contain sandy admixts, which have their own reaction types with Ca(OH). The first phase of the reaction is an agglomeration of the clay particles, indicated by an increase of the scalimentation rate from suspensions by 30–40 times and a considerable reduction of the plasticity. The activation energy of the chemisorption is 9700 cal./mole. The subsequent chem. reaction with a new formation of Ca silicate hydrates is too slow at room temp. to be of industrial interest; the antoclave process in satd, steam under 7–8 atm. pressure (at about 175°) is necessary for an adequate acceleration of the reaction.

DUNIKOY, P.

USSR/Chemistry - Chemical technology

Card 1/1

1 Fub. 22 - 30/44

Authors

Budnikov, P. P., Memb. Corresp. of Acad. of Sc. USSR; and Al pero-

Title

Maximum shear stress and internal friction of desiccated clay

Periodical

Dok. AN SSSR 98/1, 115-118, Sep 1, 1954

Abstract

the maximum shear stress and internal friction of desiccated (vacuumed) clay was investigated. The relation between the max. shear stress internal friction, and the degree of air-removal from the clayey mass during the vacuum process is explained. The results are described in detail. Ten USSR references (1941-1953). Graphs.

Institution :

• • • • •

Submitted

: April 12, 1954

USSR/Chemistry - Physical chemistry

Card 1/1 Pub. 22 - 25/56

Authors

Budnikov, P. P., Memb. Corres. of Ac. of Sc. USSR.; and Tresvyatskiy, S. G

Title : Study of the structural diagram of GeO₂ - Li₂O

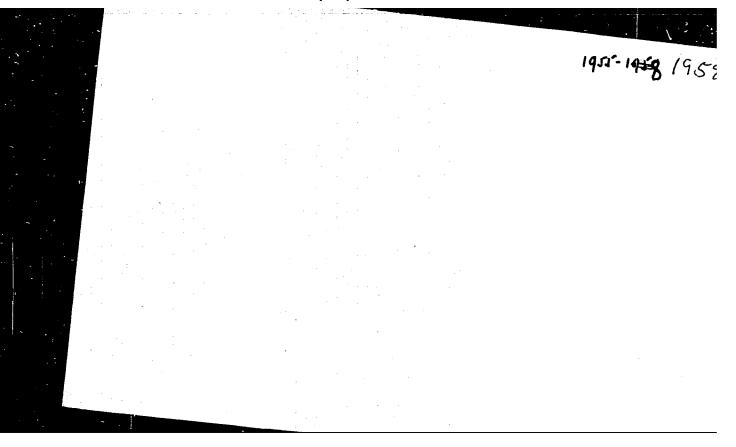
Periodical : Dok. AN SSSR 99/5, 761-763, Dec 11, 1954

Abstract

The presence in a GeO₂ - Li₂Osystem of Li₂GeO₂ and Li₃GeO₄ compounds with melting points of 1237 and 1295±3°, respectively, was established by study ing the structural diagram of the above mentioned system. The two eutectic discovered in the GeO₂ - Li₂O system, their percentage composition and containing from 85 - 95 mol. % of GeO₂ and 15 - 5 mol. % of Li₂O, was obserting at a 1035±3° temperature. One German reference (1929-1931). Table; graph

Institution: The D. I. Mendeleyev Chemical-Technological Institute, Moscow

Submitted : June 22, 1954



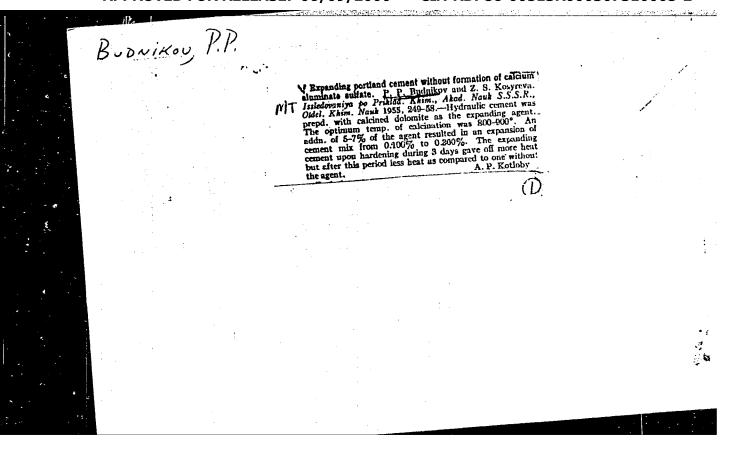
Porcelain—Introduction to Its Technology (Parlor—Vvedenie Technologius). P. P. Bunggroy and R.y. O. GEWBEREN.
Conductiventuse bedsets two Meetinal Promyshlements RNFSR.
Mosecow, 1985. 502 pp. 7.1 films. Price fr. 56k.—This textbook is selected for the use of engineering technicians and students in higher educational institutions. The intent of the authors was to privent the principles of the manufacture of porcelain and the engineering details. Exhaustive treatment of industrial machinery and engineering details. Exhaustive treatment of industrial machinery and equipment used in the large-scale manufacture of whiteware is purposely omitted. The text's time chapters deal with the raw materials of the porcelain industry, basic processes in making porrelain bodies, the forming of porcelain rateles, drying, glaing, and firing. The last three chapters are devoted to the properties of porcelain, as short review of industrial porcelain. It would appear that the text falfills the objectives of the art suitable consistency. By American standards the illustrations and ever and inadequate, and destrains of the suitage are touched upon in a manner that would be considered both too advanced for the staye of education of the reader and too brief to do justice to the subject. In particular.

the chapter on the firing of porcelain might well have been expanded into two chapters, with more attention given to the variations to be antispated in practice and the equipment used in industry.

BUDNIKOV, Petr Petrovich; redaktor; BEREZHNOY, Anatoliy Semenovich;
BULAVIN, Ivan Anisimovich; GRISSIK, Boris Mikhaylovich;
KUKOLEV, Grigoriy Vladimirovich; POLYBOYARINOV, Dmitriy
Nikolayevich; AVGUSTINIK, A.I., doktor tekhnicheskikh nauk,
professor, retsenzent; GLEZAROVA, I.L., redaktor; PANOVA, L.Ya.,
tekhnicheskiy redaktor.

[Technology of ceramics and refractory materials] Tekhnologiia keramiki i ogneuporov. Pod obshchei red. P.P. Budnikova. Izd. keramiki i ogneuporov. Pod obshchei red. P.P. Budnikova. Izd. 2-e, perer. Moskva, Gos.izd-vo lit-ry po stroit. materialam. (MLRA 8:12) 1955. 698 p.

1. Deystvitel myy chien AN USSR. 2. Chien korrespondent AN SSSR. (Geramic industries) (Refractory materials)



BUDNIKOV, P.; MATVEYEV, M., dotsent. Quicklime in the production of silicate building materials. Stroi. mat., izdel. i konstr. 1 no.4:17-20 Ap'55.

1. Deystvitel nyy chlen Akademii nauk SSSR. (Bricks) (Building blocks)

Budnikor, P.P.

USSR/ Chemistry - Silicates

Card 1/1

Pub. 124 - 4/40

Authors

: Budnikov, P. P., Memb. Corresp., Acad. of Sc., USSR

Title

: Theoretical problems of the chemistry of silicates

Periodical: Vest. AN SSSR 1. 24-29, Jan 1955

Abstract

: The relation between the science of silicates and the manufacture of structural and other silicate base materials is explained. The importance of the chemistry of silicates and structural materials in the national economy is discussed. The chemistry of silicates which was considerably enriched by the science of silico-organic compounds silicones is analyzed. The various technical applications of these compounds are listed. The achievements of Soviet scientists in the field of refractories are listed.

Institution:

Submitted :

BUDNIKOV, P.P.; TRESVYATS 'KIY, S.G.

Electric conductivity of typical refractory clays subjected to high temperatures. Dop. AN URSR no.2:165-167 '55.

1. Diyaniy chlen Akademii nauk URSR (for Budnikov) 2. Moskova kiy khimiko-tekhnologichniy institut imeni D.I.Mendeleyeva (Refractory materials -- Electric properties)

J-12 USSR/Chemical Technology. Chemical Products and their Application. Glass. Ceramics. Building Materials. Abs Jour: Referat Zh.-Kh., No 8, 1957, 27595 Author : P.P. Budnikov, S.G. Tresvyatskiy.

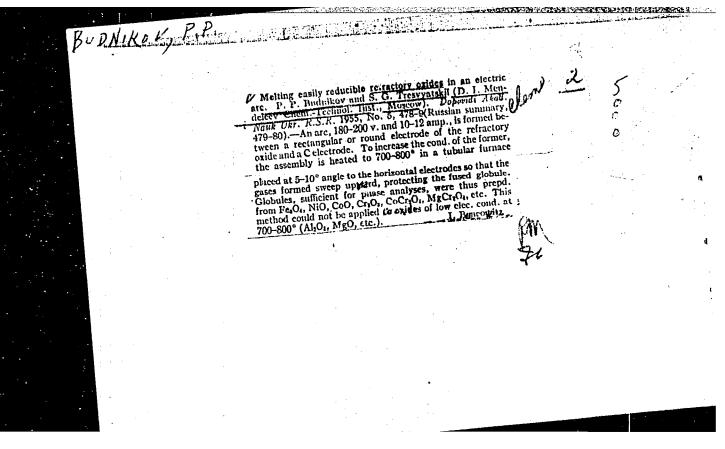
: Methods of High Temperature Thermal Analysis. Inst

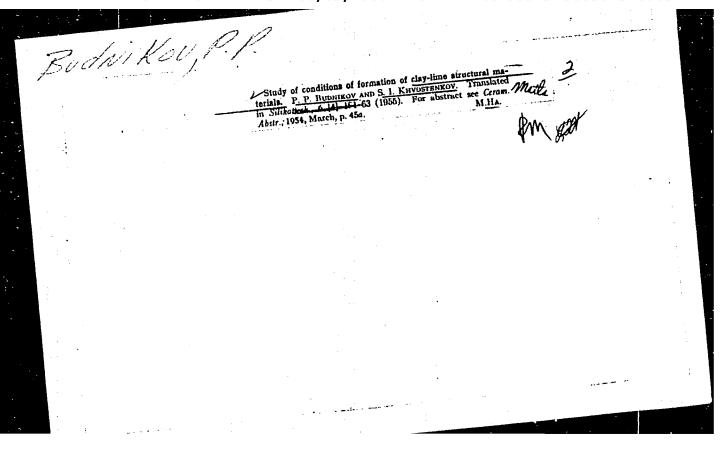
Orig Pub: Ogneupory, 1955, No 4, 166-173. Title

Abstract: The methods and equipment for the high temperature thermal analysis are described; they make the determination of the melting point of highly refractory oxides and their compounds up to 2200 possible. It is proposed to use a W-Mo thermocouple for temperature measurements and a Mo crucible in the shape of a plate for melting the substances. In order to protect the thermocouple and the plate from oxidation caused by the electric furnace provided with a heating tube of electrographite, N is let through at a speed of 20 to 30 lit per hour; the description of the furnace is given.

: 1/2 Card

-56-





Budnik. V. P. D

USSR/Chemistry - Sulfides, production of

: Budnikov, P. P., Corr Mem Acad Sci USSR; Prof Nekrich, M. I. Card 1/1

: Concerning the mechanism of the reduction of sulfates with carbon Author

in the solid phase Title

: Khim. prom. No 7, 402-403, Oct-Nov 1955

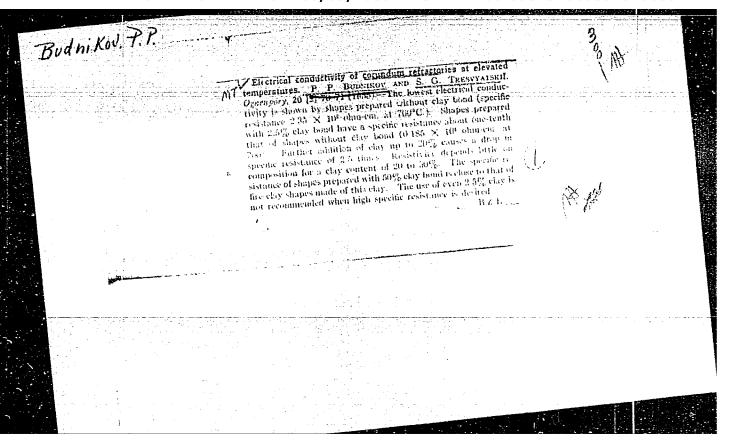
: Investigated the reduction with carbon of sulfates of sodium, magnesium, and alkaline earth metals to sulfides. On the basis of the Periodical Abstract

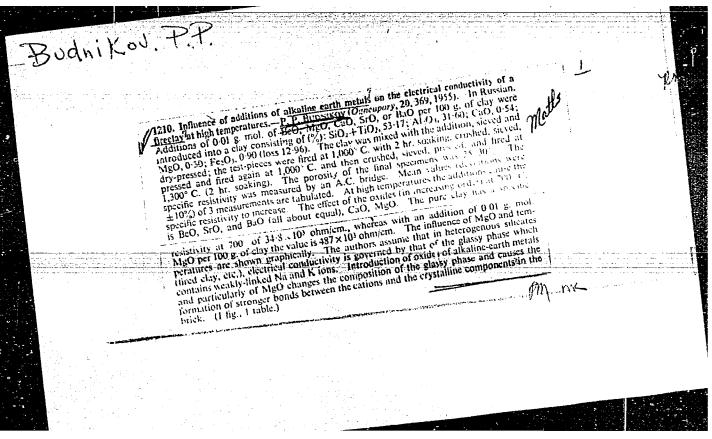
results obtained, arrive at the conclusion that the process does not take place in the solid phase: there is always formation of carbon monoxide, which acts as the reducing agent. Four references;

3 USSR, one since 1940.

: --Institution

: --Submitted





HUZHEVICH, G.A., kandidat tekhnicheskikh nauk; ELINSON, M.P., kandidat tekhnicheskikh nauk

Bibliography ("Gramulated blast furnace slags and slag cement."

P.P. Budnikov, I.L. Znchke-IAvorskii, Reviewed by G.A. Buzhevich, P.P. Budnikov, I.S. and S. (NIRA 8:8)

N.P. Elinzon). TSement 21 no.2:27-28 Mr.-Api55.

(Slag cement) (Budnikov, P.P.) (Znachko-IAvorskii, I.L.)

BUDNIKOV, P.P.

USER/ Chemistry - Chemical technology

Gard 1/1

rub. 116 - 21/25

Budnikov, P. P., and Ginstling, A. M.

Authors

CO. LAND TO THE BASE OF THE PARTY OF THE PARTY.

Title

The study of mineralizers

Periodical !

Ukr. khim. zhur. 21/1, 109-116, 1955

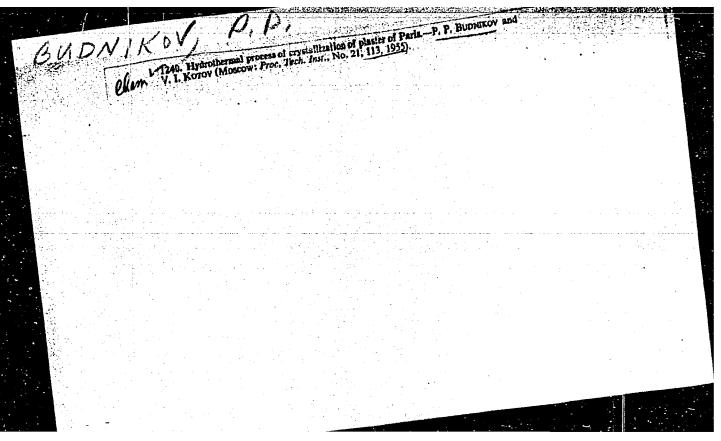
Abstract

The problems concerning the theory of mineralizers and methods of their investigation are discussed. The question on whether there is any diff-Grence between mineralizers and catalysts and whether the mineralizer changes only the rate of the given process or displaces the reaction equilibrium is debated and explained. The present day meaning of the term mineralizer is defined. Five different explanations are given regarding the effect of various accelerators (mineralizers) in reactions of solid substances. Twenty-one references: 19 USSR and 2 German (1897-1953). Graphs.

Tratitution

cuhmitted

April 23, 1954



"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307310005-2

BUDNIKOV, HP.

USSR/ Chemistry - Structural materials

Card 1/1

Authors

Budnikov, P. P.; Gulinova, L. G.; and Torchinskaya, S. A. Pub. 116 - 24/24

Unkilned plaster cement and the increase of its water resistance

Title

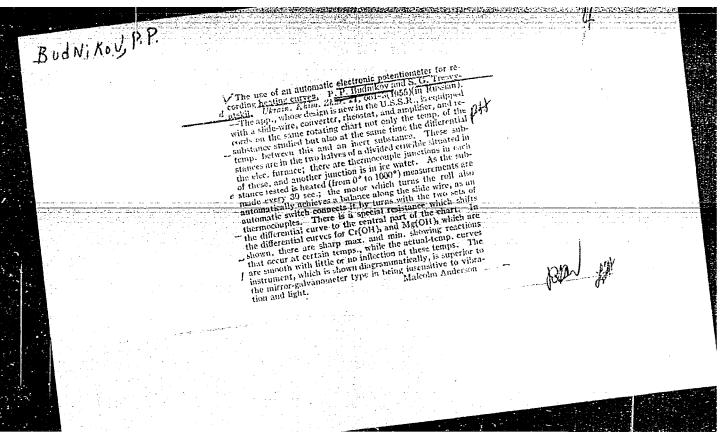
Periodical :

Data are presented regarding the manufacture of unkilned highly waterproof structural plaster gement. Four USSR references (1930-1954). Tables; Ukr. khim. zhur. 21/2, 274-282, 1955

Abstract

Institution: Acad. of Architecture, Ukr. SSR. Inst. of Structural Materials

Submitted : June 10, 1954



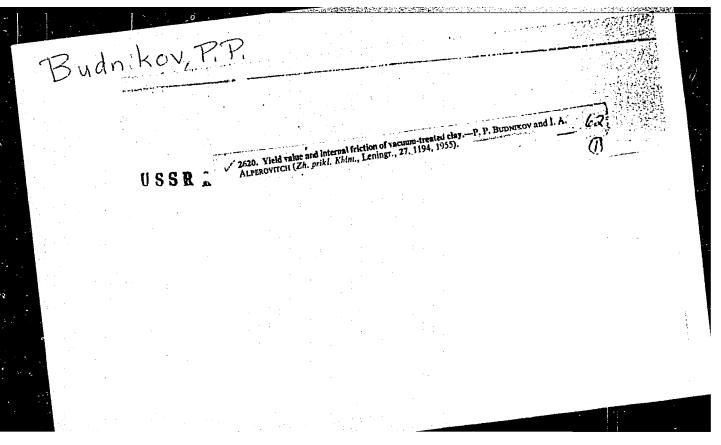
BIDEIKW P.P.

Blast furnace slags. Hauka i zhizn' 22 no.6:21-22 Je '55.

(MIRA 8:8)

1. Cjlen-korrespondent Akademii nauk SSSR.

(Slag) (Blast furnaces)



PEDOLAGE P. P.

AID P - 3724

Subject

: USSR/Chemistry

card 1/1

Pub. 152 - 4/16

Authors

Budnikov, P. P. and K. E. Goryaynov Interaction of lime with Portland cement hydration

Title

products and mineral wool fibers

Zhur. prikl. khim. 28, 8, 817-821, 1955

Periodical Abstract

The effect of Portland cement hydration products on mineral wool (nine different chemical structures) was studied. Mineral wool fibers whose chemical composition corresponds to the crystallization fields C5A3 and CA of corresponds to the crystallization fields U5A3 and UA OI the ternary system CaO-Al2O3-SiO2 could be used for the reinforcement of cement if their diameter exceeds 6M. Two tables, 4 photos, 5 references, all Russian (1951-1953).

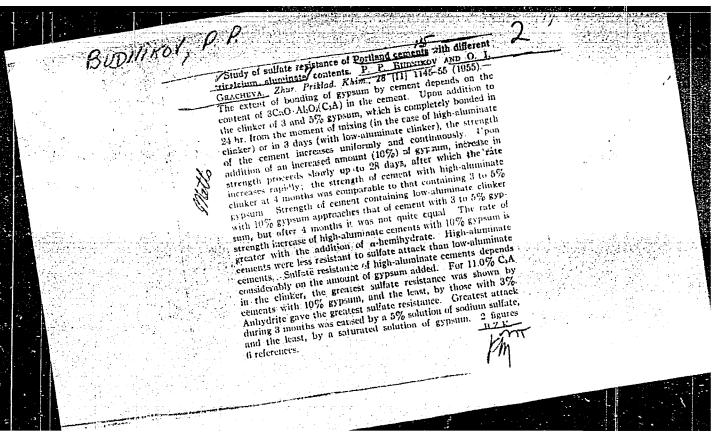
1953).

Institution

: None

anhmitted

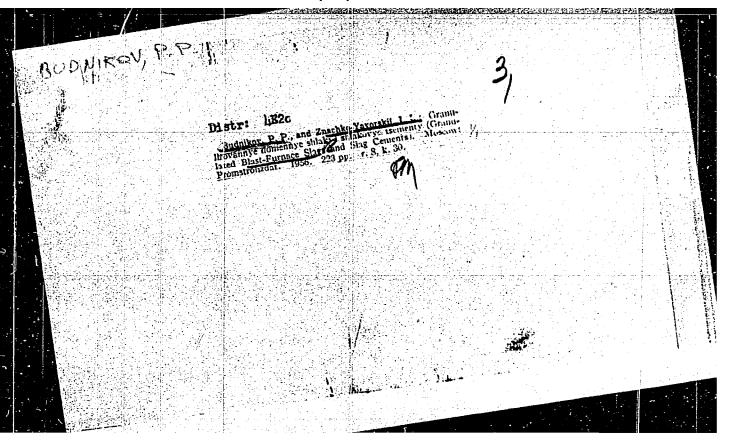
: F 20, 1954



"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307310005-2

BUDVIKOV, P.P. USSR/Chemistry - Chemical technology Budnikov, P. P., Memb. Corresp. Acad. of Sc., USSR, and Cherkasova, A. F. Pub. 22 - 37/53 Helenite and its role in the hardening of alumina cement Card 1/1 Authors Experiments were conducted to determine the effect of the helenite struc-Dok. AN SSSR 102/4, 793-795, Jun 1, 1955 ture and solidification process on its hydraulic activity in alumina Title cement. It was found that helenite hydrates in the presence of calcium hydroxide and the products of this hydration are calcium hydrosilicates and hydroxiliminates as well as aliminum hidroxide. Periodical and hydroaluminates as well as aluminum hydroxide. The product formed in the presence of so, tone in the solution are carried in the presence of so, tone in the solution are carried in the presence of so, tone in the solution are carried in the solution and nydroaluminates as well as aluminum hydroxide. The product formed in the presence of SO, ions in the solution was found to be calcium hydrothe presence of SO, ions in the solution (1934-1953). Tables; illustrations, sulfoaluminate. Three USSR references (1934-1953). Abstract Institution : December 31, 1954 Submitted



"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307310005-2 GINZBURG, David Borisovich, doktor tekhnicheskikh nauk; DELIKISHKIN, Sergey Nikolayevich, kandidat tekhnicheskikh nauk; KHODOROV, Yevgeniy BUDNIKEV, Iosifovich, kandidat tekhnicheskikh nauk; CHIZHSKIY, Anatoliy Fedotovich, kandidat tekhnicheskikh nauk; ZIMIN, V.N., dotsent, reteenzent; KUZYAK, V.A., dotsent, retsenzent; NOKHRATYAN, K.A., kandidat tekmicheskikh nauk, retsenzent; IVANOV, A.N., dotsent, retsenzent [deceased]; DUNIKOV PRADKIN, A.Yo., retsenzent Pradktor, redaktor, retsenzent Pradktor, kandidat tekhnicheskikh nauk, nauchnyy redaktor; goli DENHERG, L.G., inzbener nauchmy redaktor; goli DENHERG, L.G., inzhener, nauchnyy redaktor; GIEZAROVA, I.L., redaktor; GIADKIKH, N.N. [Frunaces and driers in the silicate industry] Pechi i sushila Bilikatnoi promyshlennosti. Izd. 2-06, perer. Pod red. P.P. Budnikova. tekhnicheskiy redaktor Moskva, Gos. izd-vo litery po stroit. materialam, 1956. 455 p. 1. Deystvitel nyy chlen Akademii nauk USSR (for Budnikov) (Kilns) (Drying apparatus)

CIA-RDP86-00513R000307310005-2 "APPROVED FOR RELEASE: 06/09/2000 I-12 BUDNIKOV, USSR Chemical Technology. Chemical Products and Their Application Silicates. Glass. Ceramics. Binders. Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31645 Author : Budnikov P.P., Ginstling A.M. Contribution to the Study of Accelerators of Reactions in Mixtures of Solids Tr. Soveshchaniya po khimii tsementa. M., Prom-Title The effect of mineralizers in solid-phase reacstroyizdat, 1956, 93-105 The effect of mineralizers in solid-phase reactions is considered. The inappropriateness of the term "mineralizer" (M) is noted, and this the term should be replaced by "process accelerator", term should be replaced by the like. Also are "accelerating additive", or the like. The wiew noted the lack of a generally accented view noted the lack of a generally accented view. Orig Pub: Abstract: noted the lack of a generally accepted view

BUDNIKOU, P.P.

137-1958-1-177

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 28 (USSR)

Budnikov, P.P., Tresvyatskiy, S.G., Cherepancy, A. M.

Highly Refractive Oxides and Their Products (Vysokoogneupornyye AUTHORS:

TITLE:

PERIODICAL: V sbornik Fiziko-khimicheskiye osnovy keramiki, Moscow.

Promstroyizdat, 1956, pp 301-324

Current views on the processing of raw materials, charges, molding, and sintering, and the properties and areas of application of products made of highly areas of application. of products made of highly refractive oxides melting at over 20000: ABSTRACT:

Al₂O₃, BeO, MgO, CaO, ZrO₂, ThO₂, and CeO₂. In

accordance with the data of Hume-Rothery (Hume-Rothery, W. Metallurgical Equilibrium Diagrams, London, 1952), practical

recommendations are adduced on the choice of material for crucibles and the atmospheres and fluxes to be used in the fusion

of 45 different pure metals (from light ones such as Li. Na, K and others to heavy ones like W, U, and others). Bibliography:

124 references.

Card 1/1

1. Refractory oxides-Applications

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000307310005-2 131-1990 -

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 35 (USSR) BUDNIKOV, P.P.

AUTHORS: Budnikev, P. P., Tresvyatskiy, S. G.

TITLE:

A Method for Determining the Temperature of the Liquidus and the Solidus in Studies of Fusibility Diagrams and Phase Diagrams of Highly Refractory Oxides (Metodika opredeleniya temperatur likvidusa; solidusa pri izuchenii diagramm plavkosti i diagramm sostoyaniya vysokocgneupornykh okislov)

PERIODICAL: V 5b.: Fiz.-khim. osnovy keramiki. Moscow, Promstroyizdat,

ABSTRACT:

Literature data are employed to set forth methods of determining the temperatures of the liquidus in systems where smelting is done in air, in an inert gas atmosphere or in a vacuum, a method of annealing and hardening, and a method of thermal analysis at high temperatures with employment of high-temperature W-Mo thermocouples. The latter method, developed by the Authors, is described in greatest detail. Fusion and crystallization curves of Al₂O₃, 3 Al₂O₃, 2SiO₂, Mg₂ SiO₄, CaAl₂O₄, and CaF₂, obtained by the W-Mo thermocouple method, are adduced Bibliography: 32 references. 2. Ores--Pro-

Card 1/1

orides-Temperature-Determination

BUDNIKOV, P., akademik

At the enterprises and in the institutes of China. Stroi. mat.

(MIRA 12:3)

2 no.10:35-38 0 '56.

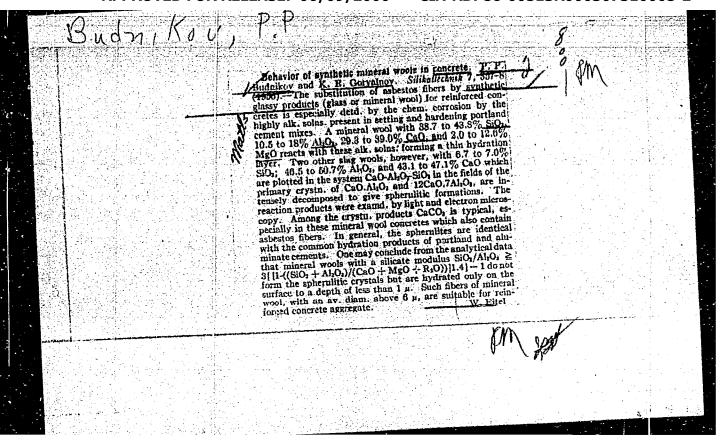
1.AN USSR, chlen-korrespondent AN SSSR.

(China-Building materials industry)

CIA-RDP86-00513R000307310005-2 "APPROVED FOR RELEASE: 06/09/2000

VSSR/Chemical Technology - Chemical Products and
Their Applications - Silicates. Glass. I-10 BUDNIKOV, P. Ref Zhur - Khimiya, No 3, 1957, 9006 Budnikov, P., and Blokh, G. The Indirect Evaluation of the Frost Resistance Abs Jour : Stroit matialy, izdeliya i konstruktsii, 1956, Author ${ t Inst}$ Title An attempt is made to establish a correlation 110 3, 32-34 Orig Pub between data on the direct and on the indirect evaluation of the frost-resistance of construction materials on the basis of an analysis of tion materials on the pasis of an analysis of literature data as well as of direct experimential and material. It is noted that a successful tal material. Abstract solution of the problem requires that the

Budnikov, P	
	Distr: 4E2c Mineral wool application to water-insulating materials.
	P. P. Budnikov, and L. A. Sukhova. Trudy Vseroyus. Nauch-issledovalel. Inst. Asbesla, Hyudy, Asbesiolsement. Izden 1956, No. 4, 80-93. Mineral wool was proposed to satisfy requirements of increased production of roof materials. In spite of its great strength, sheets prepd. from pure mineral wool, or from mixts, of mineral wool with pressboard, had a lower tensile strength than pure pressboard sheets, because fibers of mineral wool, having no polar active groups at the surface, possess no van der Waals links between themselves or with org. fibres in mixts. E. Ryshkewitch
chle	Korrespondent akademis houh SS S18.
	SSSR



CIA-RDP86-00513R000307310005-2 "APPROVED FOR RELEASE: 06/09/2000

BUDNIKOV, P.P.

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5302

Author: Budnikov, P. P., Sokhatskaya, G. A.

Institution: State All-Union Scientific Research Institute of Cement Industry

Title: Properties of Superfinely Ground Slag-Portland Cement

Tr. Gos. Vses. n.-i. in-ta tsement. prom-sti, 1956, No 9, 3-50 Original Publication:

Superfine grinding (particles < 3 / 65-85%, specific surface, determined with Deryagin surface-meter, ~25,000 cm²/g) increases the hydraulic activity of slag-Portland cements (S), prepared with acidic, Abstract: low basicity and basic slag. Relative increase in strength is considerably higher during the early periods of hardening (1.3 and 7 days). In tests of 1:3 mortars of high consistency, compression strength at the age of one day was as high as 415 kg/cm², and cf 3 days -- up to 458 kg/cm². Relative increase in activity on super-

fine grinding is greater in the case of S prepared with low-activity

Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5302

Abstract: slag, than in the case of S prepared with active basic slag. Superfinely ground S (SGS) show shorter setting time. Optimal gypsum content of SGS is 5-7%. Strength of SGS is higher following a combined grinding of the components, than on grinding them separately and combining them thereafter. Heat of hardening of SGS is higher than that of conventionally ground S. Strength of concrete made with SGS is greater by 50-155%, than that of concrete made with conventionally ground S, at the same water/cement ratios. Water requirements of concrete made with SGS are higher.

Card 2/2

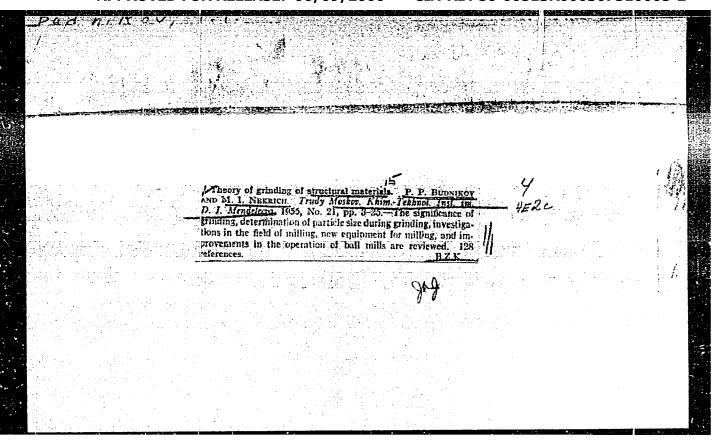
BUDNIKOV, P.P., akademik; BARZAKOVSKIY, V.P., doktor khimicheskikh nauk.

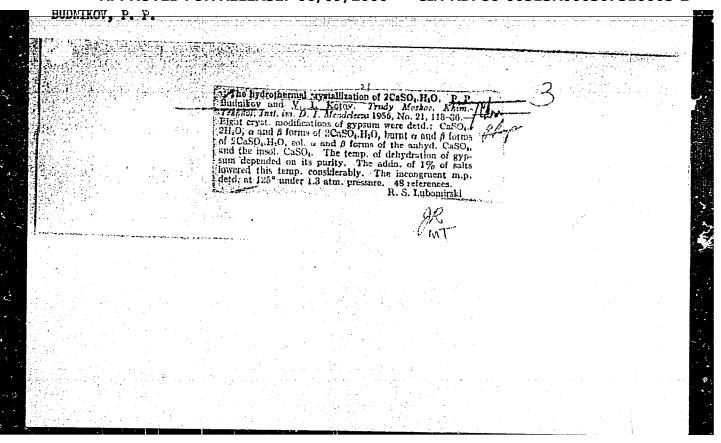
Manufacturing glass of high silica-alumina content in the Chinese People's Republic. Stek. i ker. 13 no.9:31-32 S '56. (MLRA 9:10)

1. Akademiya nauk USSR (for Budnikov) (China--Glass manufacture)

BUDNIKOV, P.P.; BARZAKOVSKIY, V.P.

Glaze. Stek.i ker. 13 no.11:31-32 N '56. (MLRA 10:1) (China--Glazes)





BODRKO PR

USSR/Chemical Technology - Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62362

Author: Budnikov, P. P., Kosyreva, Z. S., Kuznetsova, I. P.

Institution: Name

Title: Production of Alite-Free Cement and Study of Its Properties

Original

Periodical: Tr. Mesk. khim.-tekhnol. in-ta, 1956, No 21, 155-161

Abstract: Investigated was the possibility of producing good quality cement from low grade bauxites characterized by increased content of silica and Fe oxide. The experiments showed that alite-free cement can be produced from low grade bauxites by calcining the mixture of raw materials, consisting of chalk, bauxite and gypsum, at temperatures lower than those that are required in the case of Portland cement. Optimal calcination temperature of alite-free cement containing

added gypsum is 1,200°. It is advantageous to add as mineralizer 30% gypsum and 1% coal. The possibility has been demonstrated of

Card 1/2

USSR/Chemical Technology - Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62362

Abstract: obtaining hydraulic cement consisting essentially of dicalcium

silicate, monocalcium aluminate and tetracalcium alumoferrite,

having satisfactory binding properties.

Card 2/2

BUDNIKOV, P.P.; VOLODIN, P.L.; TRESVYATSKIY, S.G.

Review of data on the system: CaCl₂ -- BaCl₂. Ukr.khim.zhur.22 no.3:292-294 '56. (MIRA 9:9)

BUDNIKOV, P.P., zasluzhennyy deyatel' nauki i tekhniki; YUNG, V.N., dektor tekhnicheskikh nauk, professor.

Review of V.V. Kind's book "Corrosion of cement and concrete in hydraulic structures." Gidr. stroi. 25 no.2:64-65 '56. (MLRA 9:8)

1. Deystvitel'nyy chlen AN USSR i chlen-korrespondent AN SSSR (for Budnikov)

(Hydraulic engineering)(Concrete--Corrosion) (Kind, V.V.)

BUDNIKOV, P.P., chlen-korrespondent Akademii nauk SSSR.

Conference of chemical engineers. Vest. AN SSSR 26 no.10:79-80 0 '56. (MLRA 9:11)

(Banska Stavnica, Czechoslovakia -- Chemistry, Technical -- Congresses)

BUDNIKEV, P.P.

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates.

Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5276

Author: Budnikov, P. P., Mchedlov-Petrosyan, O. P.

Institution: None

Title: Conference on Utilization of Vibratory Grinding in the Industry of

Building Materials

Original

Publication: Zh. prikl. khimii, 1956, 29, No 5, 645-650

Abstract: An account of the principal papers presented at the conference.

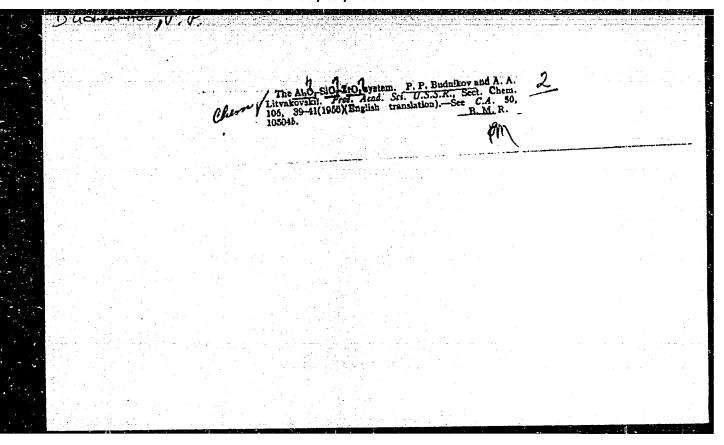
Card 1/1

BUDNIKOV, P.P.; YUNG, V.N.

"Corrosion of cements and concrete in hydraulic structures." V.V. Kind. Reviewed by P.P. Budnikov, V.N. IUng. Zhur.prikl.khim. 29 no.5:807-808 My '56. (MLRA 9:8) (Cement) (Concrete) (Kind, V.V.)

BUDNIKOV, P. SILIN, P.

Convention of chemical technologists in Slovakia. Zhur. prikl. khim. 29 no.12:1896-1898 D *56. (MLRA 10:6) (Banska Stiavnica, Chechoslovakia--Chemistry, Technical--Congresses)



Bud nikov, P.P.

Card 1/1

Pub. 22 - 25/54

Authors

Budnikov, P. P., Memb. Corres., Acad. of Sc., USSR, and Litvakovskiy, A.A.

Title

• Study of the Al₂O₃-SiO₂ - ZrO₂ system

Periodical :

Dok. AN SSSR 106/2, 267-270, Jan 11, 1956

Abstract

The aluminum oxide containing a section of the Al₂O₃-SiO₂-ZrO₂ system was investigated for the purpose of preparing a hitherto unknown structural diagram for this refractory system. Equilibrium diagrams were prepared on the basis of the melting point and phase composition of a larger number of refractory mixtures. The theoretical basis for the technology of high grade refractory lithoidal casting is described. The diagram also made it possible to determine the chemical composition of a batch of refractory casting material. Nine references: 8 USER and 1 USA (1939-1954). Diagrams.

Institution:

.

Submitted

July 14, 1955

BUDNIKEY, P. P.

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5133

Author: Budnikov, P. P., Matveyev, M. A.

Institution: Academy of Sciences USSR

Title: Synthesis of Sodium Trisilicate in the Crystalline State and Study

of Its Properties

Original

Publication: Dokl. AN SSSR, 1956, 107, No 4, 547-550

Abstract: The possibility has been ascertained of the formation in the Na₂O-

SiO₂ system, of a new compound Na₂O.3SiO₂, in crystalline state, within the range 700-750°. There are given: rate of crystallization curve of vitrous Na₂O.3SiO₂; results of x-ray investigations (interplanar distances of crystal lattice of Na₂O.3SiO₂); optical constants of Na₂O.3SiO₂ crystals; density, solubility and coefficient of thermal expansion of crystalline Na₂O.3SiO₂. A study has also been made of the hydration capacity of crystalline Na₂O.3SiO₂. It is noted that

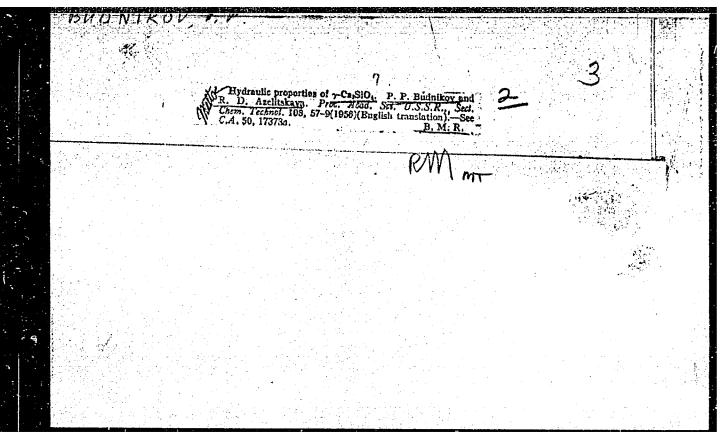
Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5133

Abstract: study of properties of crystalline Na₂0.3SiO₂ shows that synthesis of high silica content of crystalline sodium silicates is possible by means of prolonged crystallization of vitrous silicates of the same composition. On the basis of the above-mentioned data assumptions are made concerning the structure of glasses of the Na₂0-SiO₂ system.

Card 2/2



BUDNIKOV, P.P.

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates. Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2. 1957, 5286

Author: Budnikov, P. P., Azelitskava, R. D.

Institution: Academy of Sciences USSR

Title: Binding Properties of Gamma-2CaO.SiO2

Original

Publication: Dokl. AN SSSR, 1956, 208, No 3, 515-517

Abstract: The beta- and gamma-form of C2S were synthesized and their binding

properties were studied by testing the compression strength of samples from a solution of 1:2 composition; gamma-C2S has somewhat better binding properties than beta-C2S. Addition of beta-C2S to gamma-C2S decreases the strength of the latter. Minimum strength is observed with a gamma-C2S:beta-C2S ratio of 1:1. The presence of some admixtures in the raw materials, in particular of sesquioxides, has a detrimental effect on strength of the synthesized

gamma-C2S.

Card 1/1

BUDNIKEV, P.P.

PHASE I BOOK EXPLOITATION

83

AUTHORS:

Tresvyatskiy, S. G., and Cherepanov, A. M.

TITLE:

High-refractory Materials and Oxide Products

(Vysokoogneupornyye materialy i izdeliya iz okislov)

PUB. DATA:

Gosudarstvennoye nauchno-tekhnicheskoye izdatelistvo literatury po chernoy i tsvetnoy metallurgii, Moscow,

1957, 246 pp., 3,000 copies

ORIG. AGENCY:

None given

EDITORS:

Matveyev, M. A.; Ed. in chief: Budnikov, P.P.,

Academician; Ed. of the Publ. House: Rozentsveyg, Ya.D.;

Tech. Ed.: Vaynshteyn, Ye. B.

PURPOSE:

This book is for engineers and technicians working

with refractory materials in the fields of metallurgy

and industries using high temperatures.

COVERAGE:

The book provides data on the manufacture and uses of

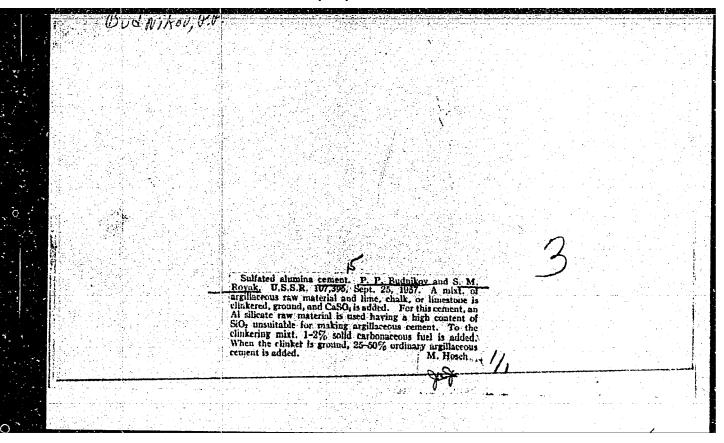
high-refractory materials made from pure oxides and

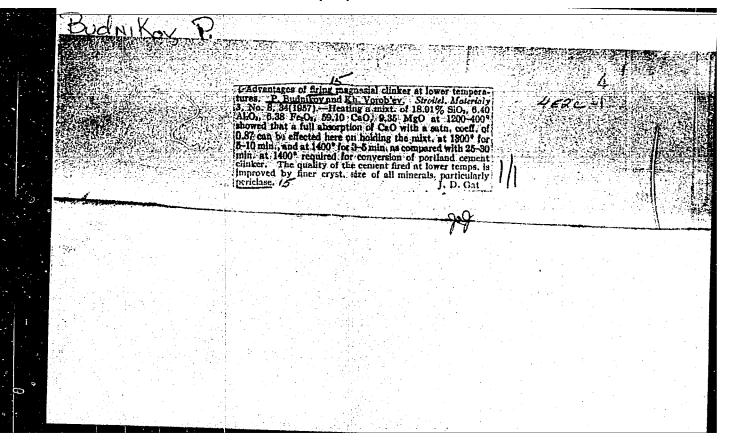
presents a method of classifying products made ,

Card-

BUDNIKOV, P.P., red.; BUTT, Yu.M., red.; MATVEYEV, M.A., red.; TROKHIMOVSKAYA, I.P., red.; GURVICH, E.A., red.; GILENSON, P.G., tekhn.red.

[Collection of papers on the chemistry and technology of silicates]
Sbornik turdov po khimii i tekhnologii silikatov. Moskva, Gos.
izd-vo lit-ry po stroit. materialam, 1957. 424 p. (MIRA 11:3)
(Silicates)





BUDNIKOV, PP

21-4-13/24 Budnykov, P.P., Member of the Ukrainian Academy of Sciences, AUTHORS:

and Azelyts'ka, P.D.

Effect of Small Additions of Carbonates of Alkaline and Alkaline-TITLE:

Earth Metals on some Properties of Cement Solutions (Vplyv malykh

dobavok karbonativ luzhnykh i luzhnozemel'nykh metaliv na deyaki vlastyvosti tsementnoho rozchynu)

PERIODICAL: Dopovidi Akademii Nauk Ukrains'koi RSR, 1957, #4, pp 371-374

(USSR)

ABSTRACT: The effect of small additions of carbonates of Li, Na, K, Mg. Ca, Sr and Ba on some properties of cement solutions was investigated. Two samples of different mineralogical composition

were taken for investigations. The amount of additions varied from 0.1 to 0.5 %.

It was found that cations depending on their properties may act as surface-active substances and interact mainly with the alumino-ferric components of cement. There is a certain dependence between the effect of these cations on the strength

of cement and their atomic properties. Card 1/2

TITLE:

Effect of Small Additions of Carbonates of Alkaline and Alkaline-Earth Metals on some Properties of Cement Solutions (Vplyv malykh dobavok karbonativ luzhnykh i luzhnozemel'nykh metaliv na deyaki vlastyvosti tsementnoho rozchynu)

According to the efficiency of interaction, the cations may be arranged in the following order:

$Li \leftarrow Na \leftarrow K \leftarrow Mg \rightarrow Ca \rightarrow Sr \rightarrow Ba$

(arrows indicating the direction of increasing efficiency).

Carbonates of alkaline metals in amounts of 0.5 % accelerate strongly the initial setting of cement, but carbonates of alkaline-earth metals (0.1 to 0.5%) retard the initial setting, retardation increasing from Mg to Ba. The final setting is reduced

The article contains 2 graphs and 3 tables. There are 3 references all Slavic.

INSTITUTION: Not indicated

PRESENTED BY:

SUBMITTED: 26 November 1956

AVAILABLE: At the Library of Congress

Card 2/2

CIA-RDP86-00513R000307310005-2 "APPROVED FOR RELEASE: 06/09/2000

н.

POLAND/Chemical Technology - Chemical Products and Their Application - Glass, Ceramies, Binders, Silicates.

: Ref Zhur - Khimiya, No 9, 1958, 29527 Abs Jour

: Jefrienow, G.L., Budnikow, P.P., Rarzakowski, W.P.

: Artistic Porcelain in the Chinese Peoples Republic. Author Inst

: Szklo i ceran, 8, No 4, 106-110 (1957) (in Polish) Title

Abstract : Translation. See RINKhin, 1957, 38369, 38370.

Card 1/1

Oric Pub

21

BUDNIKUV, Problems. Methodology. History. Scientific USSR/General Problems. Methodology. Institutions and Conferences. Teaching. Problems of Bibliography and Scientific Documentation

Abs Jour: Ref Zhur-Khimiya, No 4, 1958,10218

Author

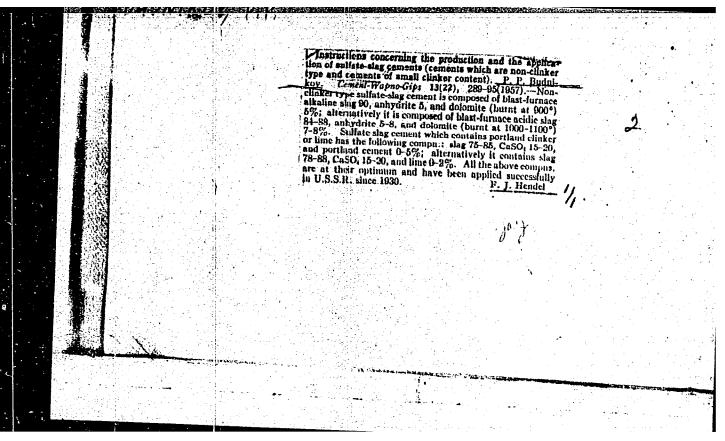
: P. <u>Budnikov</u> : Not given : Morks of Soviet Scientists in the Field of Silicates Inst

Grig Fub : Stroit. materialy, 1957, No 10, 13-17 Title

Abstract : On the 40th anniversary of the Great October

Socialist Revolution.

Card 1/1



BUDNIKOV, P.P.

hinam, triving ;

"Silicon organic compounds in industry" by A.P. Kreshkov. Reviewed by P.P. Budnikov. Stek.i ker. 14 no.6:29-30 Je '57. (MIRA 10:7)

1. Akademik Akademii nauk USSR. 2. Chlen-korrespondent Akademii nauk SSSR.

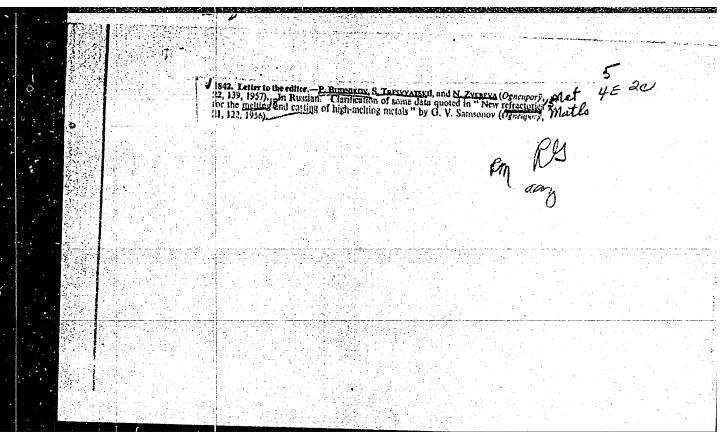
(Silicon organic compounds)

BUDNIKON BR

BUDNIKOV, P.P., akademik; MCHEDLOV-PETROSYAN, O.P.

Theory of the "pyrocatalysis method" of brick firing. Stek.i ker. 14 no.8:11-13 Ag '57. (MIRA 10:10)

1. Akademiya nauk USSR (for Budnikov).
(Brickmaking)



BUDNIKOV, P.P.

AUTHORS: Budnikov, P.P. and Zakharov, L.A. 73-2-16/22

Preparation of quick-hardening hydraulic binders from non-bauxite raw materials. (K voprosu polucheniya bystrot-verdeyushchikh gidravlicheskikh vyazhushchikh na neboksit-

PERIODICAL: "Ukrainskiy Khimicheskiy Zhurnal" (Ukrainian Journal of Chemistry), Vol.23, No.2, March-April, 1957, pp.239-242 (USSR).

ABSTRACT: An increased content of silicon dioxide (more than 10%) in aluminous cement considerably lowers its mechanical strength. This is explained by the formation of a tertiary compound (Ca,Al,SiO₇) in the aluminous cement (1) during the burning process. In their investigations concerning the preparation of quick-hardening binders the properties of the fellowing aluminous component raw materials were studied: anorthosite, nephelinic syenite, alumitised clay and cinders carboneceous shale. Lime-travertin was used as lime component. Anorthosite was shown to be the most suitable of the above raw materials. Table 1 gives the average chemical composition (in %) of anorthosite and lime-travertin. Diagram 1 shows the heat curves for 2 anorthosite test samples. Experiments showed that quick-

73-2-16/22

Preparation of quick-hardening hydraulic binders from non-bauxite raw materials. (Cont.)

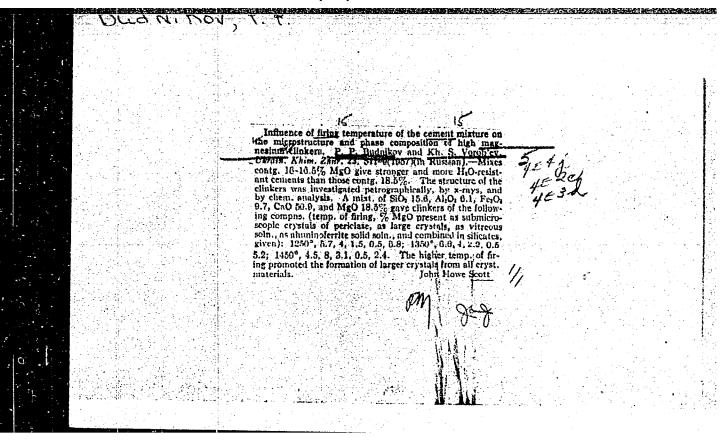
hardening aluminabelite cements can be produced from anorthosite and lime-travertin by burning the mixture at 1100 C. The produced cements do not reveal anomalous properties: they have only relatively lowered activity, dependent on the structure of the clinker. Belite is the main component (together with calcium aluminate) of cement with regard to the mineralogical structure of the latter. The characteristic properties of the produced cements are not restricted to the speed of hardening during the first 72 hours. A steady increase of strength, especially during the 3rd - 6th month can be observed which is due to the presence of belite (Diagram 3). Curves are given of card 2/3 the increase in strength of cement samples tested for compression. These are characteristic for the whole range of tested cements. Table 2 gives the permissible variation in mechanical strength of tested samples of one group of cements. A microphotograph of a section of a clinker (with added fluorspar) is included. (Fig.2).

Preparation of quick-hardening hydraulic binders from non-bauxite raw materials. (Cont.)

There are 2 tables, 2 diagrams, 1 photograph and 3 Slavic

SUBMITTED: October 24, 1956. AVAILABLE: Library of Congress

Card 3/3



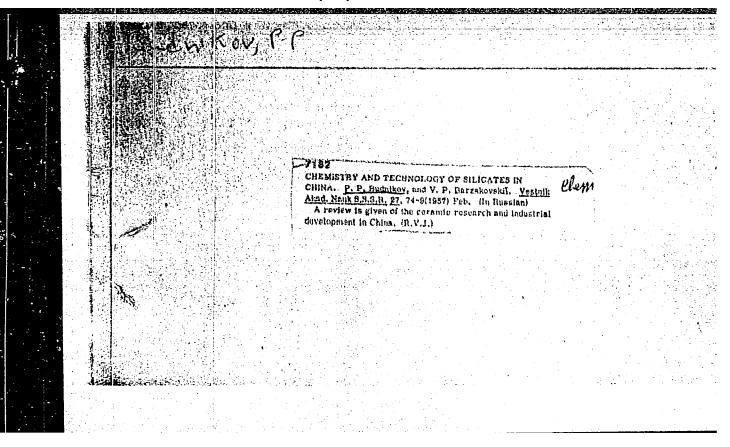
BUDNIKOV, P.P.; KOSYRWYA, Z.S.

Study of molten protland cement. Trudy MKHTI no.24:81-84 '57.

(MIRA 11:6)

BUNDIKOV, P.P.; PETROVYKH, N.V.

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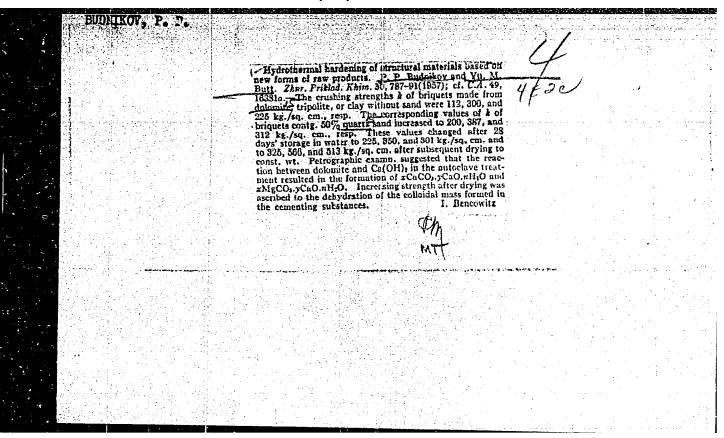
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